TREK-755

NEW

Features

- 10.4" TFT LCD Display, 5 ~ 100% dimmable
- Rugged aluminum enclosure and fanless design
- VESA standard for flexible mounting kits
- IP65 dustproof and waterproof seals
- Compatible with Windows 98/2000/XP and Linux
- Embedded OS Support (Win CE .NET 4.2; XP Embedded)
- Flexible expansion capability for 802.11a/b/g, GPS, GPRS, CDMA, GSM
- Flexible power source: Default 24 VDC; with optional 12 VDC, 48 VDC, or AC power sources
- Optional extreme temperature operating capability
- Optional sunlight readable capability

Introduction

TREK-755 is a fanless vehicle mounted computer that comes with a VIA® Eden™ low-power CPU for high reliability and performance. It is designed for applications in depots, warehouses, transportation, agriculture, manufacturing, ports & container yards, distribution centers, shipyards, and lumberyards where it is mounted in electric vehicles.

The rugged die-cast aluminum enclosure replaces the fan as it helps TREK-755 dissipate heat. TREK-755 has a special design without ventilation holes that makes the front panel, back cover and sides comply with IP65/NEMA4, while the more exposed I/O ports have been placed in the bottom to protect against vertically falling water. TREK-755 can therefore be placed in harsh environments with dust and humidity. TREK-755 serves as a shockproof solution for rotating drive applications. With the installation of a solid state CompactFlash® card, TREK-755 can additionally offer shock and vibration proof data storage for critical industrial applications.

TREK-755 is designed to be used in both wireless and wide area networks with its expansion capabilities for 802.11b/g, GPS, GSM, or GPRS. In addition to Windows® 98, 2000 and XP, TREK-755 also supports embedded operating systems like Win CE .NET, WinXP Embedded, and Linux.

Specifications

- **CPU** — On-board VIA Eden 800 MHz CPU
- **System Memory** — Supports DDR 200/266 SDRAM up to 2 GB
- **SSD** — Supports one internal CompactFlash type II socket
- **HDD** — One IDE interface for 2.5" HDD
- **Network (LAN)** — 10/100Base-T Ethernet interface
- **MiniPCI** — One type III A/B slot
- **Dimensions (W x H x D)** — 310 x 255 x 80 mm
- **Weight** — 3.8 kg

LCD Display

- **Display Type** — 10.4" TFT LCD
- **Resolution (H x V)** — SVGA 800 x 600
- **Colors** — 262 K
- **Pixel Pitch (H x V)** — 0.264 x 0.264 mm
- **Contrast Ratio** — 500:1 Typical
- **Viewing Angle (L/R/U/D)** — 60/60/35/65° (CR≥10)
- **Luminance** — 230 nits with 5 ~ 100% dimmable brightness control
- **Lamp Life Time** — 20,000 hours

Touchscreen (Optional)

- **Type** — Analog resistive / Vandal proof infrared
- **Light Transmission** — 75% / 91%
- **Controller** — RS-232 interface (COM4) / RS-232 interface (COM4)
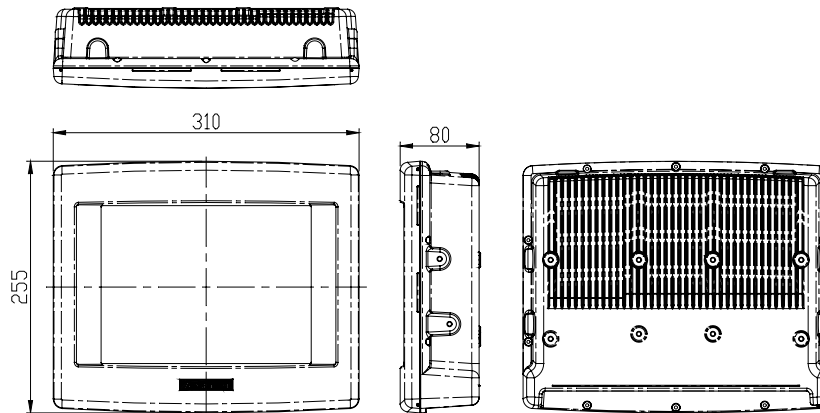- **Durability** — 10 million / 100,000 hrs

Power Supply

- **AC Model**
  Input voltage — 100 ~ 240 V_{AC}, 50/60 Hz, 2 ~ 1.5 A
- **Default 24 V DC Model**
  Input voltage — 19 ~ 36 V_{DC}
- **Optional 12 V DC Model**
  Input voltage — 10 ~ 18 V_{DC}
- **Optional 48 V DC Model**
  Input voltage — 40 ~ 58 V_{DC}

Environmental Specifications

- **Operating Temperature** — 0 ~ 45° C (32 ~ 113° F)
- **Anti-freeze Operating** — -30 ~ 45° C (-22 ~ 113° F)
- **Relative Humidity** — 10 ~ 95% @ 40° C, non-condensing
- **Shock** — 30 G peak acceleration (11 ms duration)
- **EMC** — CE, FCC Class B
- **Safety** — UL, CUL, CE
- **Vibration** — 1 G (operating with HDD); 3 G (operating with CF card)

Dimensions

Unit: mm

310

80

255

Ordering Information

Basic Models
- **TREK-755R-A0** — 10.4" LCD, 24 VDC, Eden 800 MHz, 256 MB RAM, 40 GB HDD, resistive touchscreen
- **TREK-755R-CEA0** — 10.4" LCD, 24 VDC, Eden 800 MHz, 128 MB RAM, 64 MB CF, WinCE .NET, resistive touchscreen
- **TREK-755R-XPEA0** — 10.4" LCD, 24 VDC, Eden 800 MHz, 256 MB RAM, 40 GB HDD, Windows XPE, resistive touchscreen

Sunlight Readable Models
- **TREK-755V-SA0** — TREK-755R-A0 with transflective LCD and infrared vandal proof touchscreen
- **TREK-755V-SCEA0** — TREK-755R-CEA0 with transflective LCD and infrared vandal proof touchscreen
- **TREK-755V-SXPEA0** — TREK-755R-XPEA0 with transflective LCD and infrared vandal proof touchscreen
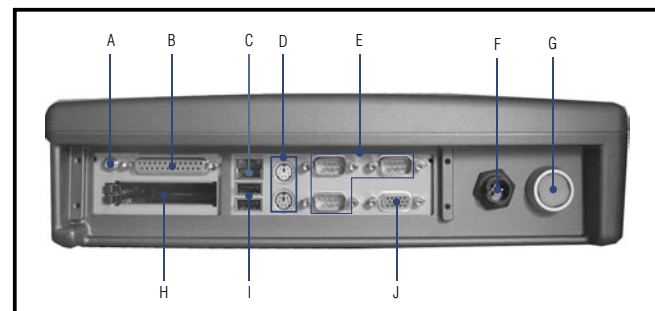
Anti-freeze Models
- **TREK-755R-FA0** — TREK-755R-A0 anti-freeze model
- **TREK-755R-FCEA0** — TREK-755R-CEA0 anti-freeze model
- **TREK-755R-FXPEA0** — TREK-755R-XPEA0 anti-freeze model

Note : Customized XPE installations are available.

Optional Items
- **TREK-UNIARM-01** — Universal arm for TREK-725/755/756
- **I/O-CV-01** — IP53 I/O cover for TREK-725/755/756
- **RAM-MOUNT-01** — VESA plate RAM mount with clamp base
- **RAM-MOUNT-02** — VESA plate RAM mount with 2.5" diameter base
- **RAM-MOUNT-03** — VESA plate RAM mount
- **11 Mbps IEEE 802.11b compliant PCMCIA WLAN card**
  - MLAN-3325A — PCMCIA WLAN Card for USA (Detachable antenna)
  - MLAN-3325E — PCMCIA WLAN Card for Europe (Detachable antenna)
- **TREK-755 with AC power, 12 V DC or 48 V DC power (Production upon order)**
- **IEEE 802.11b/g MiniPCI or USB WLAN module**
- **GPS receiver module**

Fully Integrated I/O

A. Line out
B. SPP/EPP/ECP parallel port
C. 10/100Base-T Ethernet
D. PS/2 keyboard and mouse port
E. 3 serial ports:
   RS-232 x 2
   RS-232/422/485 x 1

F. DC power inlet (IP66)
G. Power switch (IP65)
H. PCMCIA Type II x 2 / Type III x 1
I. 2 x USB 2.0 ports
J. VGA port